EU Declaration of Conformity / EU-Konformitätserklärung

JungleSIM M1S Soil Moisture Sensor

> **DRAFT for review, not yet signed.** This declaration becomes valid only when the manufacturer signs it. Open points before signing are listed in the conformity assessment report M1S-CAR-001.

Item / Angabe	Details
1. Product / Produkt	Radio equipment: wireless soil moisture sensor / Funkanlage: kabelloser Bodenfeuchtesensor
Type, model / Typ, Modell	JungleSIM M1S Soil Moisture Sensor, model M1S
Hardware / software version	Sensor module rev 2.0, moisture probe rev 1.0, case rev 1.0 (JLC3DP); firmware build ____ or later (first build for board rev 2.0)
Serial numbers / Seriennummern	M1S-YYMM-NNN
2. Manufacturer / Hersteller	JungleVault (Lucas Bohunovsky), Frauenstiftgasse 5/1/11, 1210 Wien, Austria / Österreich, contact@thejunglevault.com

3. This declaration of conformity is issued under the sole responsibility of the manufacturer. / Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.

4. Object of the declaration / Gegenstand der Erklärung: JungleSIM M1S Soil Moisture Sensor, a battery-powered sensor with a capacitive soil moisture probe (TLC555 oscillator, electrode under solder mask), a rechargeable lithium polymer battery (3.7 V, 500 mAh) with protection circuit, USB-C charging and the radio module ESP32-C3-MINI-1 (Espressif Systems).

5. The object of the declaration described above is in conformity with the relevant Union harmonisation legislation: / Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union:

- Directive / Richtlinie 2014/53/EU (radio equipment, RED), including Delegated Regulation (EU) 2022/30 (Art. 3(3)(d) and (e))
- Directive / Richtlinie 2011/65/EU and (EU) 2015/863 (RoHS)

6. Harmonised standards and other technical specifications applied / Angewandte harmonisierte Normen und technische Spezifikationen:

Requirement / Anforderung	Standard / Norm
RED Art. 3(1)(a) health and safety	EN IEC 62368-1:2020+A11:2020 (incl. Annex M, batteries); EN IEC 62311:2020 (RF exposure, by calculation); cell to EN 62133-2
RED Art. 3(1)(b) EMC	ETSI EN 301 489-1 V2.2.3; ETSI EN 301 489-17 V3.2.4
RED Art. 3(2) radio spectrum	ETSI EN 300 328 V2.2.2
RED Art. 3(3)(d), (e) network protection, privacy	EN 18031-1:2024; EN 18031-2:2024
RoHS	EN IEC 63000:2018

7. Conformity assessment procedure / Konformitätsbewertungsverfahren: Internal production control, RED Annex II (Module A). The radio module ESP32-C3-MINI-1 holds an EU type-examination certificate from TIMCO Engineering (notified body 1177, certificate E1177-210536, 2 June 2021) for RED Art. 3(1)(a), 3(1)(b) and 3(2); the manufacturer relies on it for the radio part as described in M1S-CAR-001.

8. Radio / Funk: Frequency band / Frequenzband 2400-2483.5 MHz (ESP-NOW, IEEE 802.11 b/g/n). Maximum radio-frequency power transmitted / maximale Sendeleistung: 20 dBm e.i.r.p.

9. Accessories, software / Zubehör, Software: Dust plug. Firmware JungleSIM sensor, updated over the air through the S1M.

10. Additional information / Zusatzangaben: The product contains a rechargeable lithium polymer battery (Regulation (EU) 2023/1542). Technical documentation kept by the manufacturer for 10 years after the last unit is placed on the market.

Signed for and on behalf of / Unterzeichnet für und im Namen von: JungleVault

Item / Angabe	Details
Place, date / Ort, Datum	Wien, _____
Name, function / Name, Funktion	Lucas Bohunovsky, owner / Inhaber
Signature / Unterschrift	_____

Revisions

Rev	Date	Changes
2	2026-10-24	Case rev 1.0 entered. Still a draft, not signed.
1	2026-10-24	First issue. Draft, not yet signed.